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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,233	07/24/2003	Kazuyoshi Ueno	NEC 1030 DIV	1290	
27667	7590 03/07/2006		EXAMINER		
HAYES, SOLOWAY P.C.			GUERRERO, MARIA F		
3450 E. SUNRISE DRIVE, SUITE 140 TUCSON, AZ 85718		.0	ART UNIT	PAPER NUMBER	
			2822		
			DATE MAILED: 02/07/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Applicant(s)		 				
Office Action Summary		10/626,233	UENO, KAZUYOSHI		P			
		Examiner	Art Unit		\			
		Maria Guerrero	2822					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 30 Ja	nuarv 2006.						
·	is action is FINAL . 2b)⊠ This action is non-final.							
′=	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-6,11,13,14,18 and 20</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-6,11,13,14,18 and 20</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restriction and/or	election requirement.						
Application Papers								
9)☐ The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
		priemy amazi de energi (176(a)	(2) 3. (.).					
,	1. Certified copies of the priority documents	s have been received.						
	2.⊠ Certified copies of the priority documents have been received in Application No. <u>09/273,627</u> .							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau			J				
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
	r No(s)/Mail Date	6) Other:		,				
S Patent and Te	ndomed Office							

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DETAILED ACTION

1. This Office Action in response to the amendment and the Request for continued examination filed January 30, 2006.

Status of Claims

2. Claims 7-10, 12, 15-17, 19, and 32 are canceled. Claims 1-6, 11, 13, 14, 18, 20-31 are pending.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 30, 2006 has been entered.

Priority

- 4. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/273,627, filed on March 23, 1999. *Election/Restrictions*
- 5. Claims 21-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on July 15, 2005.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites the limitation "said electrode terminals" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-6, 11 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Loan et al. (US 6,136,725).

Loan et al. teaches a semiconductor device manufacturing apparatus having a vaporizer and an orienting element using a d.c. electrical potential for orienting the precursor molecules in the direction of the electrical field induced by the d.c. electrical potential (Fig.1, col. 2, lines 42-67, col. 3, lines 1-37, col. 9, lines 6-21, col. 10, lines 40-

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67). Loan et al. also shows the apparatus using a thermal CVD reaction to deposit a film onto a substrate, the vaporizer for vaporizing a raw material to form a vapor phase deposition material (col. 5, lines 9-67). Loan et al. discloses the orienting element comprising a power supply (having source and electrode terminals) for supply the d.c. electrical potential to the substrate either directly or indirectly (Fig. 1, col. 9, lines 6-21). Loan et al. teaches a temperature controller and the d.c. electrical potential controller including a detector (Fig. 7, 9b, col. 11, lines 9-45).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 1-6, 11, 13, 14, 18 and 20 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 of U.S. Patent No. 6,670,270. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-10 recite the basic steps of a

semiconductor device manufacturing apparatus that uses a thermal CVD reaction to deposit a film onto a substrate, said apparatus having a vaporizer and a power supply for supplying a d.c. electrical potential to the substrate. Therefore, claims 1-6, 11, 13, 14, 18, 20 are anticipated by claims 1-10 of U.S. Patent No. 6,670,270.

Response to Arguments

- 9. Applicant's arguments filed January 30, 2006 have been fully considered but they are not persuasive. The Double patenting rejection is maintained.
- 10. Applicant's arguments with respect to claims 1-6, 11 and 13-14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yuuki et al. (US 5,776,254), Wang et al. (US 5,000,113) and Kin (US 6,051,285) teach several embodiments related to applicant's disclosure.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maria Guerrero whose telephone number is 571-272-1837.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 17, 2006

MARIA F. GUERRERO PRIMARY EXAMINER